4944/2017-18.

ಕುಪ್ಪಲತ. ಎಸ್. ಪ.

ರವರಿಗೆ,

:4943001ರಿಂದ 494400 ರ

ದು ಪ್ರಗತಿಪರಿಶೀಲನೆ

ರಿಗೆ,

Executive Engineer 26/02
tarayanapura Division
hanka Zone, B.B.M.P.
Bangalore-5600 62

6/02 26/02

M. A. R. 57 (Rule 116)
Measurement Book

No. B

494301

Serial No. Premeasurements (Modified workorder)

Name of Work Improvements to roads and ~~From~~ drains in Jakkuru colony and surrounding areas in ward no 07, Byatarayanapura.

Name of Contractor of nature of Agency Sri. B.M. Muniraju.

Date of commencement of work

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Est Cost:-	Rs. 25.00 lakhs.					
	Job code:-	007-18-000102					
	A.S. No:-						
	I.S. No:-						
	Modified agreement no:-	No. EE/BTP/Agr/01/18-19; dt: 23-06-18					
	Modified workorder no:-	No. BBMP/EE/BTP/WO/01/18-19, dt: 23-06-18					
	Approved price:-	Rs. 24,31,443.00					
	Date of commencement:-	31.05.18					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	*Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Item No.01:-	Premeasurements recorded on: 01.06.18						
	Earthwork excavation by manual means in ordinary soil.,						
	Desilting of drain:- R/S:-						
	0-20	01	20.0	0.60	0.45	= 5.40	
	culvert: 20-24	-	-	-	-	= 0.00	
	24-94	01	40.0	0.60	0.45	= 18.90	
	Road- 94-99	-	-	-	-	= 0.00	
	99-165	01	66.0	0.60	0.45	= 13.50	
	culverts:-(old)	02	5.0	0.60	0.90	= 5.40	
	(New)	03	6.0	1.50	0.90	= 24.3	
						67.5 cum	
	Qty Hd-10	54.48 cum					

Abstd. by N.D AE(WS) 20/6/18

Date 1/6/18

Date	Full description, etc, of work	Numb
1	2	3
Item No.02:-	Premeasurements recor	
	Providing and laying	
	OPC cement @ 180 kgs with 40m	
	-ates.,	
	Bottom of the existing drain:-	
	0-20	01
	24-94	01
	99-165	01
	Culverts:-(old)	02
	(New)	03
	Ramp near school:	01

Serial No. .....
Name of Work ..... Fr
Name of Contractor of nature of Agency .....
Date of commencement of work .....

BOOK

dth	Depth 6	Contents 7	*Reference to last Measurement 8
		neans in ordinary soil,	
	0·45	= 5·40	
		= 0·00	
	0·45	= 18·90	
		= 0·00	
	0·45	= 13·50	
	0·90	= 5·40	
	0·90	= 24·3	
		67·5 cum	

MEASUREMENT BOOK

MAIN-BILL:-

Date	Full description, etc, of work	Dimensions				Contents	*Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Item No.01:-	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods etc, complete as per specifications., Qty vide page no. 4944/494301 → 54.48 cum At the rate of Rs. 190.00 →						10351.20
Item No.02:-	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms thick well compacted.,						

Serial No. .....

Name of Work ..... Fr

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Numb
1	2	3
	Qty vide page no. 49 At the rate of Rs. 5130	
Item No.03:-	Providing and constru foundation with cement mo less than 20cm high, bond of materials, labour, curing Damages of existing side-w one-side:- 05-30 35-50 52-82	01 01 01

OOK

Depth 6	Contents 7	*Reference to last Measurement 8
eans in ordinary soil o 2m and an average lift d sides neatly dressed, the breaking of clods etc., complete 54.48 cum		10351.20
n cement concrete of mix 1:4:8 down size graded granite e aggregates @ 0.57 cum not exceeding 15 cms thick		

M. A. R. 57 (Rule 116)
Measurement Book

No. B
494303

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty vide page no. 4944	494302 →			20.41 cum		104703.30
	At the rate of Rs. 5130.00 →						
	Item No. 03:- Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cm high, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.,						
	Damages of existing side-wall of drain:-						
	one-side:- 05-30	01	25.0	0.45	0.60	= 6.75	
	35-50	01	15.0	0.45	0.60	= 4.05	
	52-82	01	30.0	0.45	0.60	= 8.10	

18.90

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	*Reference to last Measurement
		Number	Length	Breadth	Depth	18.90	
1	2	3	4	5	6	7	8
	85-105	01	20.0	0.45	0.60	= 5.40	
	105-125	01	25.0	0.45	0.60	= 6.75	
						31.05 cum	
	other side:-						
	06-36	01	30.0	0.45	0.60	= 8.10	
	38-58	01	20.0	0.45	0.60	= 5.40	
	58-84	01	26.0	0.45	0.60	= 7.02	
	86-111	01	25.0	0.45	0.60	= 6.75	
	113-153	01	40.0	0.45	0.40	= 7.20	
						34.47 cum	
	Rasing the drain's side wall:-						
	0-20	1x2=2	20.0	0.45	0.40	= 7.20	
	24-94	1x2=2	70.0	0.45	0.40	= 25.20	
	99-165	1x2=2	66.0	0.45	0.40	= 23.76	
						56.16 cum	

121.68

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	Culvert (old):-	02
	New:-	03
	Ammuthahalli main road [after school]	0
	At the rate of Rs.	44
Item No 04:-	providing flush po	
	masonry with cement mor	

BOOK

s dth	Depth 6	Contents 18.90 7	*Reference to last Measurement 8
	0.60	= 5.40	
	0.60	= 6.75	
		31.05 cum	
	0.60	= 8.10	
	0.60	= 5.40	
	0.60	= 7.02	
	0.60	= 6.75	
	0.40	= 7.20	
		34.47 cum	
	0.40	= 7.20	
	0.40	= 25.20	
	0.40	= 23.76	
		56.16 cum	

121.68

M. A. R. 57 (Rule 116)
Measurement Book

No. B

494304

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 121.68 7	Reference to last Measurement 8
	Culvert (old):-	02×2=4	5.0	0.60	0.80	= 9.60	
	New:-	03×2=6	6.0	0.45	0.90	= 14.58	
	Ammuthahalli main road [after school]	01	23.0	0.45	0.80	= 8.28	
						154.14 cum	
							678216.00
	At the rate of Rs.	4400.00 →					
Item No. 04:-	Providing flush pointing to square rubble, coarse or uncoursed stone masonry with cement mortar 1:4, 20mm deep, after raking joints to depth of 20mm						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	*Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	nicely lining, including cost of materials, labour, curing etc., complete as per specifications and directions of engineer-in-charge;						
	Drain-sidewall:- 0-20	1×2=2	20.0	-	1.0	= 40.0	
	24-94	1×2=2	70.0	-	1.0	= 140.0	
	99-165	1×2=2	66.0	-	1.0	= 132.0	
	Culverts (old):-	2×2=4	5.0	-	0.80	= 16.0	
	(New):-	3×2=6	6.0	-	0.90	= 32.40	
	Amruthahalli main road: [After school]	1×2=2	23.0	-	0.90	= 41.40	
						401.80 Sqm	
	At the rate of Rs. 99.00 →						39778.20

Serial No. .....

Name of Work ..... Fro

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Numbe
1	2	3
Item No.05:-	Providing and layi	
	with cement @ 240 kgs with	
	coarse aggregates @ 0.878 c	
	machine mixed, concrete laid	
	compacted, in foundation,	
	labour, HOM of machinery	
	Bottom of existing drain:-	
	0-20	01
	24-94	01
	99-165	01

OOK

Depth 6	Contents 7	*Reference to last Measurement 8
, labours, curing etc, complete		
heer-in-charge,		
1.0	= 40.0	
1.0	= 140.0	
1.0	= 132.0	
0.80	= 16.0	
0.90	= 32.40	
0.90	= 41.40	
	401.80 Sqm	
		39778.20

M. A. R. 57 (Rule 116)
Measurement Book

No. B 494305

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
Item No.05:-	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.878 cum and 0.53cum machine mixed, concrete laid in layers not exceeding 15cms, thick well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing etc., complete as per specifications.						
Bottom of existing drain:-							
	0-20	01	20.0	0.60	0.15	= 1.80	
	24-94	01	70.0	0.60	0.15	= 6.30	
	99-165	01	66.0	0.60	0.15	= 5.94	
						14.04 cum	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	14.04.	
1	2	3	4	5	6	7	8
	Coping on side walls:- 0-20	1X2=2	20.0	0.45	0.10	= 1.80	
	24-94	1X2=2	70.0	0.45	0.10	= 6.30	
	99-165	1X2=2	66.0	0.45	0.10	= 5.94	
						14.04 cum	
	Culverts (old):-	2X2=4	5.0	0.45	0.10	= 0.90	
	(New):-	3X2=6	6.0	0.45	0.10	= 1.62	
						2.52 cum	
	Amruthalli main road [after school]	01X2=2	23	0.45	0.10	= 2.07	
	Ramps for culverts:-	2X2=4	5.0	0.60	0.20	= 1.80	
		3X2=6	6.0	0.60	0.20	= 4.32	
	Road cut portion:	2	5.2	2.0	0.10	= 2.08	
						10.27 cum	
				Total = 40.86 cum			
	At the rate of Rs. 5700.00 →						232902.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	Item No.06:- Providing precast labour, curing, transportat of engineer in charge:, covering slab:- 0-20	35
	24-94	118
	99-165	110
	Culvert (old):-	18
	(New):-	30
	Missing:-	28

Asst Executive Engineer,
Bangalore.

BOOK

ns		Contents	Reference to last Measurement
adth 5	Depth 6	14.04. 7	8
45	0.10 =	1.80	
5	0.10 =	6.30	
5	0.10 =	5.94	
		14.04 cum	
5	0.10 =	0.90	
5	0.10 =	1.62	
		2.52 cum	
5	0.10 =	2.07	
0	0.20 =	1.80	
0	0.20 =	4.32	
	0.10 =	2.08	
		10.27 cum	
40.86 cum			
			232902.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

494306

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No.06:- Providing precast slab of 200mm th, including cost of all materials, labour, curing, transportation, loading, unloading etc, as per the direction of engineer in charge:-						
	covering slab:- 0-20	35	1.20	0.60	-	= 25.20	
	24-94	118	1.20	0.60	-	= 84.96	
	99-165	110	1.20	0.60	-	= 79.20	
						189.36 sqm	
	Culvert (old):-	18	1.80	0.60	-	= 19.44	
	(New):-	30	1.80	0.60	-	= 32.40	
	Missing:-	28	1.80	0.60	-	= 30.24	
						271.44 Sqm	

460.80

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	*Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	At the rate of Rs.	5000.00 →		242.460.80 :			1357260.00
		Total		2423150.70			
	Asstt Ll. N.D AE(Ll) 01/08/18						

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

M.

Serial No. .....
Name of Work ..... F
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Numb
1	2	
	Jakkur3.	
	Ayyappa temple road	
	Jakk colony	
	Asstt Ll. N.D AE(Ll)	Anjaneya temple.
	shobha apartment	

BOOK

ns		Contents	Reference to last Measurement
eadth	Depth		
5	6	7	8
24m 4.60 .80 =			1357260.00
50.70			

Assistant Executive Engineer
Kodigehalli Sub Division
Bangalore Mahanagara Palike
Bangalore - 560 092

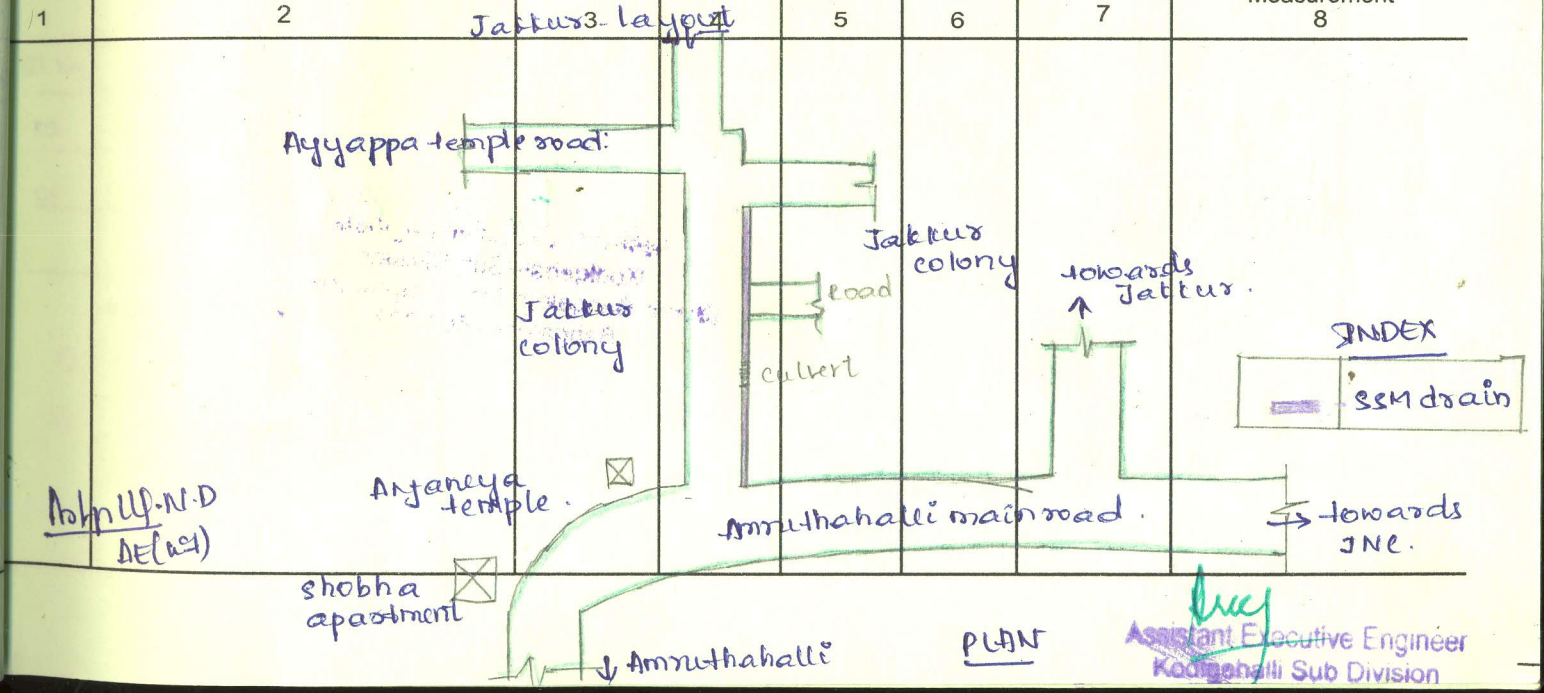
M. A. R. 57 (Rule 116)
Measurement Book

No. B

494307

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
/1	2			5	6	7	8



Assistant Executive Engineer
Kodigehalli Sub Division

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	*Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate:-						
	1) Certified that the contractor has done the satisfactorily.						
	2) Certified that debris has been removed from the work spot.						
	3) Certified that the above work is not considered under any other grants						
	Asstt.Y.N.D AE(W)						
	Assistant Executive Engineer Kodigehalli Sub Division Bruhat Bangalore Mahanagara Palike Bangalore - 560 092						

M. A.
Me

Serial No. Royalty charges:
Name of Work ..... From
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
Sl.No.	Details | Qty | Unit	Co-eff
01	40mm - 20.41 cum	0.96
05	20mm - 40.86 cum	0.90
	Total:-	
	Abstract:-	
	1) Coarse-aggregates =	56.36
	2) fine-aggregates =	28.17

OOK

dth	Depth 6	Contents 7	*Reference to last Measurement 8

he satisfactorily.
from the work spot.
sidered under any other

Asst Executive Engineer
Yelahanka Sub Division
Bangalore Mahanagara Palike
Bangalore - 560 092

M. A. R. 57
Measurer

No. B
494308

Serial No. Royalty charges:
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		Coarse Aggs		Fine Aggs		Cement	
Sl.No.	Details / Qty / Unit	co-eff	qty	co-eff	qty	co-eff	qty
01	40mm - 20.41 cum	0.96	19.59	0.48	9.79	-	-
05	20mm - 40.86 cum	0.90	36.77	0.45	18.38	-	-
	Total:-		56.36		28.17		
	Abstract:-						
1)	Coarse-aggregates =	56.36 X	108 =	6086.88			
2)	fine-aggregates =	28.17 X	103 =	2901.51			
				8988.39			

M...MENT BOOK

Date	Full description, etc, of work		Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						Total Rs. 24 23150-00	
						IT- 24232-00	
						CM- 24232-00	
						CBF- 2423-00	
						LR- 8988-00	
						Addl 59,875-00	
						Chqn: 23,63,275-00	

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ 2423150-00
ಗಣ್ಯ ಪಾಲು ಮಾಡಿದ : ಇದರಲ್ಲಿ ರೂ 59875-00
ಕಂಪಾನಕ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು ರೂ 2363275-00
Rs: Twenty three lakh sixty three thousand two hundred seventy five only
ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

ಅಭಿವೃದ್ಧಿ ಅಧಿಕಾರಿ
ಹಿರಿಯಾಯುಕ್ತರ ಕಾರ್ಯಾಲಯ
ಬೆ. ಪ. ಮಂ. ಬೆಂಗಳೂರು-1

ಸಹಾಯಕ ಅಭಿವೃದ್ಧಿ ಅಧಿಕಾರಿ
ಹಿರಿಯಾಯುಕ್ತರ ಕಾರ್ಯಾಲಯ
ಬೆ. ಪ. ಮಂ. ಬೆಂಗಳೂರು-1

Jan...

M. A...
M...

Serial No. Premeasurements:
Name of Work Improvements of roads... Fro...
Name of Contractor of nature of Agency byatar...
Date of commencement of work Sri. M. Prak...

Date	Full description, etc, of work	Number
1	2	3
	Est cost:-	25.00 L...
	Job code:-	007-19...
	A.S.No:-	
	T.S.No:-	
	New agreement no:-	NO. EE...
	Work order no. (modified):-	NO....
	Approved tender price:-	Rs. 24...
	Date of commencement:-	30.05...